ATTORNEY'S DOCKET NO .: U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE C330.104.101 TRANSMITTAL LETTER TO THE UNITED STATES U.S. APPLICATION NO. (If known, see 37 CFR 1.5) DESIGNATED/ELECTED OFFICE (DO/EO/US) **CONCERNING A FILING UNDER 35 U.S.C. 371** INTERNATIONAL APPLICATION NO.: INTERNATIONAL FILING DATE: PRIORITY DATE CLAIME PCT/GB03/01510 8 APRIL 2003 9 APRIL 2002 TITLE OF INVENTION: SEMICONDUCTOR DIODE LASER SPECTROMETER ARRANGEMENT AND METHOD APPLICANT(S) FOR DO/EO/US: LANGFORD, Nigel; DUXBURY, Geoffrey; and NORMAND, Erwan Applicant herewith submits to the United States Designated/Elected Office (DO/EO/US) the following items and other information: This is a FIRST submission of items concerning a filing under 35 U.S.C. 371. 1. 🔯 2. This is a SECOND or SUBSEQUENT submission of items concerning a filing under 35 U.S.C. 371. This is an express request to begin national examination procedures (35 U.S.C. 371(f)). The submission must include items 3. 🔯 (5), (6), (9) and (21) indicated below. The U.S. has been elected (Article 31). 4. 5. 🛛 A copy of the International Application as filed (35 U.S.C. 371(c)(2)) a. 🛛 is attached hereto (required only if not communicated by the International Bureau). b. 🛛 has been communicated by the International Bureau. c. 🔲 is not required, as the application was filed in the United States Receiving Office (RO/US). A English language translation of the International Application as filed (35 U.S.C. 371(c)(2)). 6. a. 🔲 is attached hereto. has been previously submitted under 35 U.S.C. 154(d)(4). b. 🗀 7. Amendments to the claims of the International Application under PCT Article 19 (35 U.S.C. 371(c)(3)) a. 🔲 are attached hereto (required only if not communicated by the International Bureau). b. 🔯 have been communicated by the International Bureau. c. 🔲 have not been made; however, the time limit for making such amendments has NOT expired. d. 🔲 have not been made and will not be made. A English language translation of the amendments to the claims under PCT Article 19 (35 U.S.C. 371(c)(3)). 8. 🔲 9. 🛛 An oath or declaration of the inventor(s) (35 U.S.C. 371(c)(4)). A English language translation of the annexes of the International Preliminary Examination Report under PCT Article 36 (35 10. U.S.C. 371(c)(5)). Items 11 to 20 below concern document(s) or information included: 11. 🔯 An Information Disclosure Statement under 37 CFR 1.97 and 1.98. 12. An assignment document for recording. A separate cover sheet in compliance with 37 CFR 3.28 and 3.31 is included. 13. 🛛 A preliminary amendment. An Application Data Sheet under 37 CFR 1.76. 14. 15. A substitute specification. 16. A power of attorney and/or change of address letter. A computer-readable form of the sequence listing in accordance with PCT Rule 13ter.2 and 37 CFR 1.821 - 1.825. 17. 18. A second copy of the published international application under 35 U.S.C. 154(d)(4). 19. 🔲 A second copy of the English language translation of the international application under 35 U.S.C. 154(d)(4). Other items or information: Postcard Receipt 20.

## CERTIFICATE OF EXPRESS MAIL

"Express Mail" mailing label number EV524600643 Date of Deposit: October 12, 2004. I hereby certify that this paper is being deposited with the United States Postal Service "Express Mail Post Office to Addressee" service under 37 C.F.R. § 1.10 on the date indicated above and is addressed to the Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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Vanessa Carels
Name of Person Making Deposit

U.S. APPLICATION N	O. (If known, see 37 CFR 1.		PPLICATION NO.:	ATTORNEY'S DOC	KET NO.:
โก	10/511041 PCT/GB03/015.0			C330.104.101	
21.  The following fees are submitted:			CALCULATIONS PTO USE ONLY		
Neither international nor international sear	FEE (37 CFR 1.492(a)(1) - preliminary examination fe rch fee (37 CFR 1.445(a)(2 arch Report not prepared b				
International preliminary examination fee (37 CFR 1.482) not paid to USPTO but International Search Report prepared by the EPO or JPO \$950.00					
	eary examination fee (37 Conal search fee (37 CFR 1.				
International prelimin but all claims did not	nary examination fee (37 C satisfy provisions of PCT		:		
International preliminary examination fee (37 CFR 1.482) paid to USPTO and all claims satisfied provisions of PCT Article 33(1) - (4)					
	ENTER APPROPRIAT				
Surcharge of \$130.00 for furnishing the oath or declaration later than 30 months from the				\$950.00	
	rity date (37 CFR 1.492(e))		30 months nom the	\$	
CLAIMS	NUMBER FILED	NUMBER EXTRA	RATE	\$	
Total Claims	27-20 =	7	x \$18.00	\$126.00	
Independent Claims		0	x \$88.00	\$	
MULTIPLE DEPEND	ENT CLAIM(S) (if applicat		+\$300.00 CALCULATIONS =	\$	
[]Applicant claims a	mall antity status. Cas 27	\$1076.00			
Applicant claims small entity status. See 37 CFR 1.27. The fees indicated above are reduced by 1/2.					
1000000 0) 1/2:		\$1076.00	<u> </u>		
Processing fee of \$130.00 for furnishing the English translation later than 30 months from the					
earliest claimed priority date (37 CFR 1.492(f))  TOTAL NATIONAL FEE =				\$ \$1076.00	
Fee for recording the enclosed assignment (37 CFR 1.21(h)). The assignment must be				ψ1070.00	
accompanied by an appropriate cover sheet (37 CFR 3.28, 3.31). \$40.00 per property. +				\$40.00	
TOTAL FEES ENCLOSED =				\$1116.00	<del> </del>
				Amount to be refunded:	<b> </b>
				Amount to be	
				charged:	\$
<ul> <li>a.  A check in the amount of \$ to cover the above fees is enclosed.</li> <li>b.  Please charge my Deposit Account No. 500471 in the amount of \$1116.00 to cover the above fees.</li> </ul>					
<ul> <li>The Commissioner is hereby authorized to charge any additional fees which may be required, or credit any overpayment to Deposit Account No. 500471. A duplicate copy of this sheet is attached.</li> </ul>					
<ul> <li>d.  Fees are to be charged to a credit card. WARNING: Information on this form may become public. Credit card information should not be included on this form.</li> <li>Provide credit card information and authorization on PTO-2038.</li> </ul>					
NOTE: Where an appropriate time limit under 37 CFR 1.495 has not been met, a petition to revive (37 CFR 1.137(a) or (b)) must be filed and granted to restore the application to pending status.					
SEND ALL CORRESPONDENCE TO:  Customer No. 025281 William M. Hienz III DICKE, BILLIG & CZAJA, PLLC 100 SOUTH FIFTH STREET SUITE 2250 MINNEAPOLIS, MN 55402  Signature William M. Hienz III Name 37,069 Registration Number					